

I Claim:

- 1 1. An apparatus for moving a battery relative to a shelf unit; the apparatus comprising:
 - 2 (a) a motion generating unit; said motion generating unit presenting a first force at a first output locus; said first force being manifested in a first motion type;
 - 3 (b) a motion translating unit coupled with said first output locus for receiving said first force; said motion translating unit translating said first force to present a second force related to said first force at a second output locus; said second force being manifested in a second motion type;
 - 4 (c) a battery engaging structure coupled with said second output locus for applying said second force to said battery; and
 - 5 (d) a substantially rigid frame supporting said motion generating unit and said motion translating unit; said frame adapted to cooperate with a said shelf unit to substantially fixedly situate said frame during said moving;
- 13 said moving being effected in a generally vertical axis in response to said second force.
- 1 2. An apparatus for moving a battery as recited in Claim 1 wherein said first motion type is rotary motion and wherein said second motion type is linear motion.
- 1 3. An apparatus for moving a battery as recited in Claim 1 wherein said motion generating unit responds to a force generating unit; said force generating unit being an integral portion of said motion generating unit.
- 1 4. An apparatus for moving a battery as recited in Claim 1 wherein said motion generating unit responds to a force generating unit; said force generating unit being a separate device from said motion generating unit and configured for connection with said motion generating unit to impart an initiating force to said motion generating unit; said first force being related to said initiating force.
- 1 5. An apparatus for moving a battery as recited in Claim 3 wherein said force generating unit is a manually operated force generating unit.

1 6. An apparatus for moving a battery as recited in Claim 3 wherein said force generating
2 unit is an electrically operated force generating unit.

1 7. An apparatus for moving a battery as recited in Claim 6 wherein said force generating
2 unit is battery powered.

1 8. An apparatus for moving a battery as recited in Claim 1 wherein said motion
2 translating unit is a hydraulic ram device.

1 9. An apparatus for moving a battery as recited in Claim 1 wherein said motion
2 translating unit is a screw jack device.

1 10. An apparatus for moving a battery as recited in Claim 9 wherein said motion
2 translating unit further includes a cable-and-pulley device coupled with said screw
3 jack device.

1 11. An apparatus for moving a battery as recited in Claim 1 wherein said frame is
2 configured in a telescoping structure to effect moving said battery in a generally
3 horizontal axis.

1 12. An apparatus for moving a lead-acid battery situated on a shelf structure in a
2 telecommunication facility; the apparatus comprising:
3 (a) a motion generating unit; said motion generating unit presenting a first force at
4 a first output locus; said first force being manifested in a first motion type;
5 (b) a motion translating unit coupled with said first output locus for receiving said
6 first force; said motion translating unit translating said first force to present a
7 second force related to said first force at a second output locus; said second force
8 being manifested in a second motion type;

9 (c) a battery engaging structure coupled with said second output locus for
10 applying said second force to said battery; and
11 (d) a substantially rigid frame supporting said force generating unit and said
12 motion translating unit; said frame cooperating with said shelf structure to
13 substantially fixedly situate said frame during said moving;
14 said moving being effected in a generally vertical axis in response to said second force.

1 13. An apparatus for moving a lead-acid battery as recited in Claim 12 wherein said first
2 motion type is rotary motion and wherein said second motion type is linear motion.

1 14. An apparatus for moving a lead-acid battery situated on a shelf structure in a
2 telecommunication facility as recited in Claim 12 wherein said motion generating unit
3 is a manually operated motion generating unit.

1 15. An apparatus for moving a lead-acid battery situated on a shelf structure in a
2 telecommunication facility as recited in Claim 12 wherein said motion generating unit
3 is an electrically operated motion generating unit.

1 16. An apparatus for moving a lead-acid battery situated on a shelf structure in a
2 telecommunication facility as recited in Claim 15 wherein said motion generating unit
3 is battery powered.

1 17. An apparatus for moving a lead-acid battery situated on a shelf structure in a
2 telecommunication facility as recited in Claim 12 wherein said motion translating unit
3 is a hydraulic ram device.

1 18. An apparatus for moving a lead-acid battery situated on a shelf structure in a
2 telecommunication facility as recited in Claim 12 wherein said motion translating unit
3 is a screw jack device.

1 19. An apparatus for moving a lead-acid battery situated on a shelf structure in a
2 telecommunication facility as recited in Claim 12 wherein said frame is configured in
3 a telescoping structure to effect moving said battery in a generally horizontal axis.